IN THE CLAIMS:

Please amend the claims as shown below.

1-24. (Canceled)

- 25. (Currently amended) A method, comprising:
 - generating, at a first storage environment, a first mapping of a storage object to physical storage at a second storage environment, wherein the first mapping indicates a first physical storage location at which at least a portion of the data of the storage object is stored, and wherein the first mapping includes a plurality of nodes of a data structure including a first node representing a file system layer at the second storage environment and a second node representing a volume manager layer at the second storage environment;
 - obtaining, at the first storage environment, a configuration identifier associated with the storage object, first metadata associated with the file system layer and second metadata associated with the volume manager layer;
 - generating, from the first storage environment, a request to access the at least a portion of the data of the storage object, wherein the request includes the configuration identifier;
 - in response to said request to access, receiving a notification at the first storage environment of a change of location of the at least a portion of the data if the physical storage location of the at least a portion of the data has changed;
 - in response to said notification, generating a new mapping at the first storage environment, wherein the new mapping indicates that the at least a portion of the data is located at a second physical storage location; and

accessing, from the first storage environment, the at least a portion of the data at the second physical storage location.

26. (Previously presented) The method as recited in claim 25, further comprising:

obtaining, at the first storage environment, a new configuration identifier if the physical storage location of the at least a portion of the data has changed.

27. (Previously presented) The method as recited in claim 25, wherein the second storage environment comprises a replica of the storage object, further comprising:

generating, at the first storage environment, a mapping of the replica to physical storage.

28. (Previously presented) The method as recited in claim 25, wherein at least a portion of the data of the storage object is included within a first file system supported by a first operating system in use at the second storage environment, further comprising:

virtually mounting the first file system onto a local file system supported by a second operating system in use at the first storage environment.

29. (Canceled)

30. (Previously presented) The method as recited in claim 25, further comprising:

generating a unique handle to identify the storage object at the first storage environment, wherein said generating the unique handle comprises resolving a naming convention conflict between the first storage environment and the second storage environment.

31. (Previously presented) The method as recited in claim 25, further comprising:

providing an application programming interface (API) library to allow access to the storage object from the first storage environment, wherein said generating the first mapping comprises invoking a first function of the API library, and wherein said obtaining the configuration identifier comprises invoking a second function of the API library.

32. (Currently amended) A system, comprising:
a processor; and
memory coupled to the processor, wherein the memory stores instructions
executable by the processor to:

provide a storage mapping application programming interface (API) library including a plurality of functions;

generate, using a first function of the plurality of functions, a first mapping of a storage object to physical storage, wherein the first mapping indicates a first physical storage location at which at least a portion of the data of the storage object is stored, and wherein the first mapping includes a plurality of nodes of a data structure including a first node representing a first storage management layer at a storage environment where the data of the storage object is stored, and a second node representing a second storage management layer at the storage environment;

obtain, using one or more functions of the plurality of functions, first metadata associated with the first storage management layer

and second metadata associated with the second storage management layer;

- obtain, using a second function of the plurality of functions, a
 configuration identifier associated with the storage object;
 generate, using a third function of the plurality of functions, a request
 to access the at least a portion of the data of the storage object,
 wherein the request includes the configuration identifier;
 in response to said request to access, receive a notification of a change
 of location of the at least a portion of the data if the physical
 storage location of the at least a portion of the data has
- in response to said notification, generate, using the first function, a new mapping at the first storage environment, wherein the new mapping indicates that the at least a portion of the data is located at a second physical storage location.
- 33. (Previously presented) The system as recited in claim 32, wherein the instructions are further executable to:

changed; and

- obtain a new configuration identifier using a function of the plurality of functions if the physical storage location of the at least a portion of the data has changed.
- 34. (Previously presented) The system as recited in claim 32, further including a replica of the storage object, wherein the instructions are further executable to:
 - generate, using a function of the plurality of functions, a mapping of the replica to physical storage.
- 35. (Previously presented) The system as recited in claim 32, wherein at least a portion of the data of the storage object is included within a first file

system supported by a first operating system, wherein the instructions are further executable to:

virtually mount the first file system onto a local file system supported by a second operating system.

36. (Canceled)

37. (Previously presented) The system as recited in claim 32, wherein the instructions are further executable to:

generate a unique handle to identify the storage object, wherein said generating the unique handle comprises resolving a naming convention conflict between a first storage environment and a second storage environment.

38. (Currently amended) A computer readable medium comprising program instructions, wherein the instructions are computer executable to:

generate, at a first storage environment, a first mapping of a storage object to physical storage at a second storage environment, wherein the first mapping indicates a first physical storage location at which at least a portion of the data of the storage object is stored, and wherein the first mapping includes a plurality of nodes of a data structure including a first node representing a file system layer at the second storage environment and a second node representing a volume manager layer at the second storage environment;

obtain, at the first storage environment, a configuration identifier associated with the storage object obtain, <u>first metadata</u>

<u>associated with the file system layer and second metadata</u>

<u>associated with the volume manager layer;</u>

- generate, from the first storage environment, a request to access the at least a portion of the data of the storage object, wherein the request includes the configuration identifier;
- in response to said request to access, receive a notification at the first storage environment of a change of location of the at least a portion of the data if the physical storage location of the at least a portion of the data has changed;
- in response to said notification, generate a new mapping at the first storage environment, wherein the new mapping indicates that the at least a portion of the data is located at a second physical storage location; and
- access, from the first storage environment, the at least a portion of the data from the second physical storage location using the new mapping.
- 39. (Previously presented) The computer readable medium as recited in claim 38, wherein the instructions are further computer executable to:
 - obtain, at the first storage environment, a new configuration identifier if the physical storage location of the at least a portion of the data has changed.
- 40. (Previously presented) The computer readable medium as recited in claim 38, wherein the second storage environment comprises a replica of the storage object, wherein the instructions are further computer executable to:
 - generate, at the first storage environment, a mapping of the replica to physical storage.
- 41. (Previously presented) The computer readable medium as recited in claim 38, wherein at least a portion of the data of the storage object is included within a first file system supported by a first operating system in use

at the second storage environment, wherein the instructions are further computer executable to:

virtually mount the first file system onto a local file system supported by a second operating system in use at the first storage environment.

42. (Canceled)

- 43. (Previously presented) The computer readable medium as recited in claim 38, wherein the instructions are further computer executable to:
 generate a unique handle to identify the storage object at the first storage environment, wherein said generating the unique handle comprises resolving a naming convention conflict between the first storage environment and the second storage environment.
- 44. (Previously presented) The computer readable medium as recited in claim 38, wherein the instructions are further computer executable to:

 provide an application programming interface (API) library to allow access to the storage object from the first storage environment, wherein said generating the first mapping comprises invoking a first function of the API library, and wherein said obtaining the configuration identifier comprises invoking a second function of the API library.